RICHFIELD INTERAGENCY FIRE CENTER

2013 ANNUAL FIRE REPORT

US Department of Agriculture U.S. Forest Service Fishlake National Forest

U.S. Department of the Interior Bureau of Land Management

Color Country District, Richfield Field Office West Desert District, Fillmore Field Office

Bureau of Indian AffairsSouthern Paiute Field Station

National Park Service
Capitol Reef

U.S. Fish and Wildlife ServiceFish Springs National Wildlife Refuge

State of Utah

Department of Forestry, Fire & State Lands

Central Area Office

1830 S Industrial Park Rd, Richfield, UT 84701













INTRODUCTION

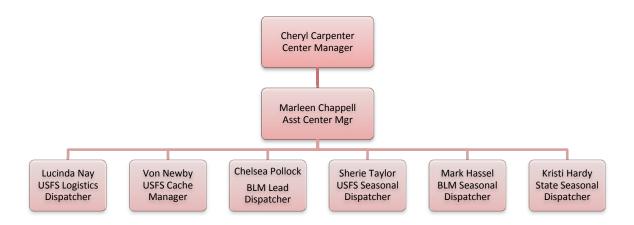
The Richfield Interagency Fire Center (RIFC) is located in central Utah. The response area of RIFC consists of over 11 million acres including the Fishlake National Forest, BLM Fillmore Field Office, BLM Richfield Field Office, Capitol Reef National Park, Fish Springs National Wildlife Refuge, Central Area of the Utah Division of Forestry, Fire and State Lands, and the BIA Southern Piute Field Station. Eight counties are included within the jurisdiction boundaries: Juab, Millard, Sevier, Sanpete, Piute, Wayne, Garfield and Beaver. Interstate highways I-15 and I-70 transect through the area as well as major highways. The terrain includes the Great Basin Desert, the Colorado Plateau, fertile valleys, and high mountain ecosystems. Elevations range from approximately 4,000 to over 12,000 feet.



Listed below is the total acreage responsibility of Richfield Interagency Fire Center and each agency's ownership acres.

	BLM	Forest Service	National Park	Fish & Wildlife	State	BIA	DOD
Acres	6,577,159	1, 835, 648	244, 802	17, 975	2, 775, 290	2, 741	961
Richfield Dis	patch Protectio	n Responsibility	Acres				11,454,576

RICHFIELD INTERAGENCY DISPATCH CENTER ORGANIZATION



The Richfield Dispatch operates with eight personnel: a Center Manager, an Assistant Center Manager, a Logistics Dispatcher, four Initial Attack dispatchers and one Cache Manager. One Assistant Center Manager was changed to a Fire Business Management Specialist position this past spring.

Besides normal dispatch duties, the staff also completed other assignments which include:

- Cheryl Carpenter: Multiple team assignments in Idaho and Utah
- Marleen Chappell: Fire Assignment to Salmon, ID as an ACDP (t) and McCall, ID as an EDSD
- Chelsea Pollock: Fire Assignment to McCall, ID as and EDSD.
- Mark Hassel: Fire Assignment to Eastern Great Basin Coordination Center as and EDRC (t).

FIRE ACTIVITY

Local fire activity was at the ten year average with the number of starts but below normal using the five year average. The acreage burned in 2013 was well below both the five and ten year average.

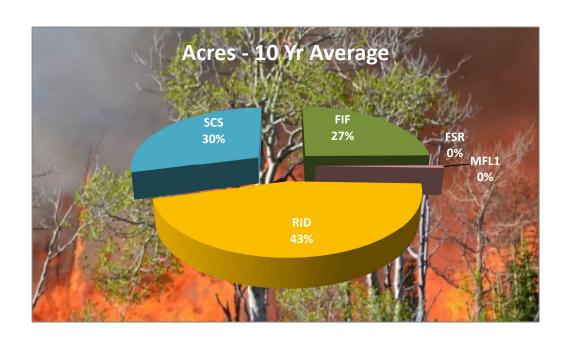
Average	Fires	Acres
2013 Fire Season	202	7,785
5 Year Average	221	78,676
10 Year Average	201	64,489

YEAR	RID	RID	FIF	FIF	SCS	SCS	FSR	FSR	MLF1	MLF1	TOTAL	TOTAL
ILAN	FIRE	ACRES	FIRE	ACRES	FIRE	ACRES	Fire	Acres	Fire	Acres	FIRE	ACRES
	FINL	ACKLS	FINL		FINL	ACKLS			***	***	FINL	ACKLS
2004		207		250	07	2.062	_		4.0	4 700	220	0.044
2004	75	907	53	250	87	3,062	0	0	13	4,722	228	8,941
2005	79	11,416	74	1,953	121	9,476	0	0	N/A	N/A	274	22,845
2006	107	34,290	76	30,692	119	19,856	0	0	N/A	N/A	302	84,838
2007	49	*198,045	31	494	99	**76,535	0	0	N/A	N/A	179	275,074
2008	31	934	23	327	66	422	0	0	N/A	N/A	120	1,683
2009	39	588	35	7,265	100	1,687	0	0	N/A	N/A	174	9,540
2010	38	67	39	44,937	60	242	0	0	N/A	N/A	137	45,246
2011	60	4,104	36	239	74	1,864	1	26	N/A	N/A	171	6,233
2012	77	21,456	56	82,277	85	78,977	0	0	N/A	N/A	218	182,711
2013	68	6,642	51	92	83	1051	0	0	3	.30	202	7,783
10 YR AVG												
2004-2013	62	27,845	47	16,853	89	19,317	0	3	1	472	201	64,490

Acres have been rounded to the fullest number.

RID = BLM, Richfield and Fillmore Field Offices, FIF = Fishlake National Forest, SCS = Central Area – Utah Division of Forestry, Fire, & State Lands (Includes private lands), FSR = Fish Springs Refuge, MLF1 = Sanpete Ranger District on the Manti-LaSal National Forest *Includes acres of Milford Flat fire that burned within RIFC boundary.

^{***} Sanpete Ranger District of the Manti-LaSal National Forest was reassigned to the Moab Interagency Fire Center in the spring of 2005. All statistics from 2005 on are kept by MFC until 2013 when returned back to RIFC.



^{**} Includes acres of Salt Creek fire that burned within RIFC boundary.

The 2013 wildland fire season started the end of March and ended in October. We ended the season with 202 fires, 10 assists and 67 false alarms for a total of 7,785 acres.

						Fires	by M	onth						
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTALS
Natural		0	0	0	0	1	19	18	96	7	0	0	0	141
Human		0	0	2	6	2	19	19	11	0	2	0	0	61
	TOTALS	0	0	2	6	3	38	37	107	7	2	0	0	202

Our season began with 6 human caused fires that stayed small in size. Our first Type 3 incident occurred on June 28th with the Antelope Fire and finished up with a total of 4 Type 3 incidents. Our Expanded Dispatch supported two Type 3 local incidents with no issues. The middle of August brought numerous lightning starts but we did not host any additional teams.

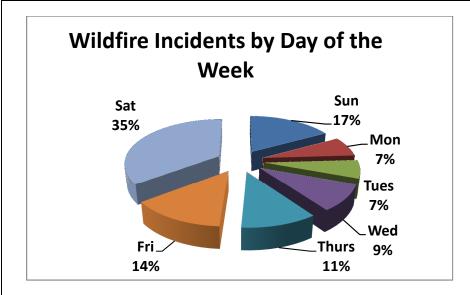
Richfield Interagency Fire Center had 733 incidents in 2013, below is the breakdown of the workload.

Incident Type	# Incidents	%
Wildfire	218	30%
(fires and assists)		
Wildfire	67	9%
(false alarms)		
Aircraft	93	13%
(incidents and flight follows)		
VFD's	287	39%
(assists)		
Law Enforcement	34	5%
Prescribed Fire	27	3%
Miscellaneous	9	1%

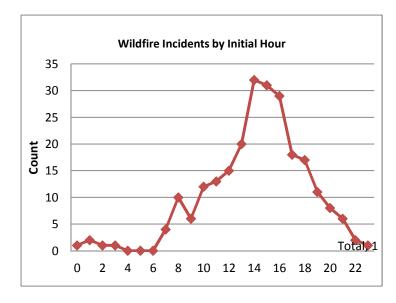
The first lightning caused fire started on June 2nd on USFS Fillmore RD and burned 1.70 acres. The largest lightning caused fire being the Antelope Fire occurred on June 28th starting on BLM land (Fillmore and burned multiple lands) with a total of 5,451 acres. The last lightning caused fire for the season occurred on September 14th on the MLF1 FS District (San Pitch) for a 1/10 of an acre. Over a three day period from August 17th through August 19th a total of 46 responses to reports of fires with 237.75 acres burned.

The first human caused fire occurred on March 22nd on Private land for 5 acres and our last human caused occurred on October 10th on Private land for 1/10 of an acre. Our largest human caused fire was the Burton fire which was 25.00 acres and occurred on June 29th.

The majority of our fires/smoke reports occurred on Saturdays with 1500 being the initial hour they began. Class A, which is less than a quarter acre, was 75% of the fires this year.



Fire Size For 2013	%
Class A (025)	75 %
Class B (.26 – 9)	19 %
Class C (10-99)	5 %
Class D (100-299)	1 %
Class E (300-999)	0 %
Class F (1000 – 4999)	0 %
Class G (5000+)	0 %







RIFC FIRE ACTIVITY STATISTICS

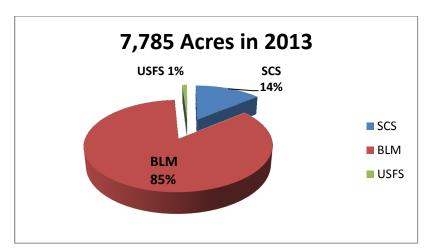
The five year average of lightning caused fires is 99 fires and 13,512 acres. The 2012 season was below five year average for acres burnt, however the number of fires was above the average. Lightning caused fires accounted for 63 percent of the fires but only 3 percent of the total acres.

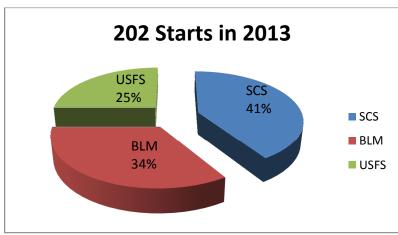
The five year average of human caused fires is 64 fires and 36,029 acres. Human caused fires and acres were above the five year average for 2012. The total number of human caused fires for 2012 accounted for 37 percent of the fires and 97 percent of the acres.

Below is the 2013 breakdown of activity by ownership for the number of fires and acres burned.

Ownership	Lightning	Lightning	Human Fires	Human Acres	Total Fires	Total Acres
	Fires	Acres				
RID	58	6,639.60	10	2.40	68	6,642.00
FIF	40	87.80	11	4.60	51	92.40
SCS/PRI	43	981.45	40	69.20	83	1,050.70
FSR	0	0	0	0	0	0
CRP	0	0	0	0	0	0
SPA	0	0	0	0	0	0
Totals	141	7,708.80	61	76.15	202	7,785.10
	(70%)	(99%)	(30%)	(1%)		

RID = Richfield Field Office & Fillmore Field Office, FIF = Fishlake National Forest, SCS = Utah Department of Forestry, Fire and State Lands, FSR = Fish Springs National Wildlife Refuge, CRP = Capital Reef National Park, SPA = BIA Southern Paiute Agency

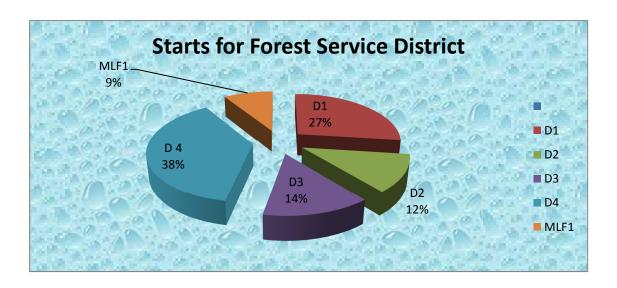




Below depicts the fires and acres by each Forest Service District, BLM Field Office, and Counties within the Division of Forestry Fire and State Lands (FFSL) jurisdiction.

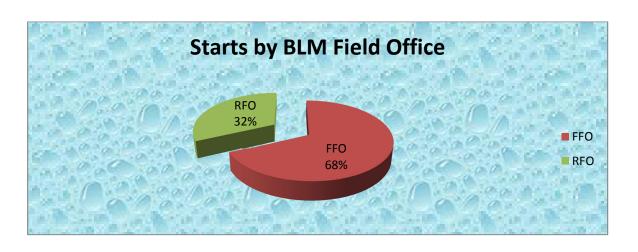
Fires and Acres by Ranger District

Ranger District	Lightning	Lightning	Human	Human	Total	Total
	Fires	Acres	Fires	Acres	Fires	Acres
Fillmore (D1)	13	2.90	1	.10	14	3.00
Fremont River (D2)	2	1.70	4	3.5	6	5.20
Beaver (D3)	5	80.55	2	.60	7	81.20
Richfield (D4)	15	2.10	4	.40	19	2.50
MLF1	5	.50	0	0	5	.50
Forest Total	40	87.8	11	4.60	51	92.40



Fires and Acres by Field Office

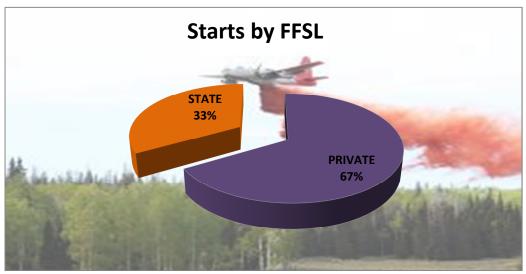
Field Office	Lightning Fires	Lightning Acres	Human Fires	Human Acres	Total Fires	Total Acres
Fillmore Field Office	40	6,587.80	6	1.2	46	6,589.00
Richfield Field Office	18	51.8	4	1.2	22	53
BLM Total	58	6,639.60	10	2.4	68	6,642.00

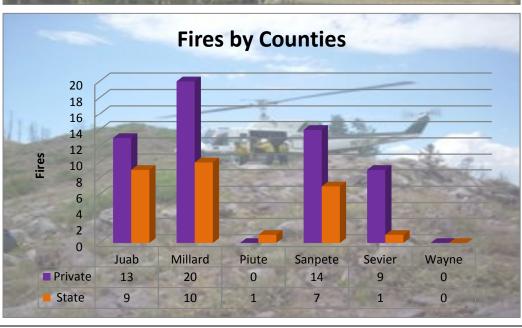


Fires and Acres by FFSL County

(Private and State Lands for Beaver and Garfield counties are dispatched out of Color Country Dispatch)

Area	Lightning	Lightning	Human	Human	Total	Total
	Fires	Acres	Fires	Acres	Fires	Acres
Juab County, State	3	2.8	6	3.7	9	6.5
Millard County, State	5	147.4	5	13,549.1	10	13,696.5
Piute County, State	1	0.1	0	0	1	0.1
Sanpete County, State	3	0.5	4	6,602.2	7	6,602.7
Sevier County, State	1	0.1	0	189.0	1	189.1
Wayne County, State	0	0	0	0	0	0
State Total	13	150.9	15	20,344.0	28	20,494.9
Juab County, Private	34	19.8	9	72.9	13	71.692.7
Millard County, Private	12	1,362.2	8	20,135.8	20	21,498
Piute Country, Private	0	0	0	0	0	0
Sanpete County, Private	1	0.1	13	36,736.6	14	36,735.7
Sevier County, Private	4	0.4	5	154.6	9	155.0
Wayne County, Private	0	0	1	.10	1	.10
Private Total	21	1,382.5	36	57,100	57	58,482.5
FFSL Total	34	1,533.4	51	77,444	85	78,977.4





LARGE FIRE SUMMARY

During the 2013 fire season we had 3 large fires for a total of 7,172.70 acres. Our season of large fire activity started at normal times, with the Antelope that fire started June 28th. The largest fire was also the Antelope fire with 5,451.00 acres.

Antelope and the 222 fires were managed by our local Type 3 Incident Management Teams with no Type 1 or Type 2 IMT's used this year on the unit.

The below chart includes fires over 100 acres.

NAME	ORG.	START Date	CAUSE	CONTROL DATE	TOTAL ACRES	BLM Acres	FS Acres	State/ PVT Acres	Comments
Antelope	UT-RID	06/28	Lightning	07/09	5451	4679		772	Type 3 Chappell
Moores	UT-RID	06/29	Lightning	07/04	145	145			Type 4 Riding
222	UT-RID	08/15	Lightning	08/27	1576.70	1473.1		103.6	Type 4 Ivie Jamie Duffy (T)



AVIATION

Central Utah does not have exclusive use contracts for helicopters, air-attack or single engine air tankers. The two Call When Needed SEAT Bases in Fillmore and Nephi were opened 3 times with 3 different SEMG assigned.

Seat Base	Total	Total	Total
	Times	Number of	Gallons of
	Opened	trips	Retardant
		SEATS flew	
Nephi	3	SEATS flew 11	20,820

Below is a breakdown of aircraft usage on fires.

Fire	Total Flight Time	Total Retardant Gallons	Total Water Gallons	Total Cargo Pounds	Total PAX Transported
Jim Wills	5.6		1,188	5,893	34
Middle Creek	5.6			8,808	49
Flat Canyon	17.2		7,288	14,433	10
Antelope		2,793			
Hell's Kitchen		1,450			
Moores		2,092			
Jiminy		14,485			
TOTAL	28.4	20,820	8,476	29,134	93





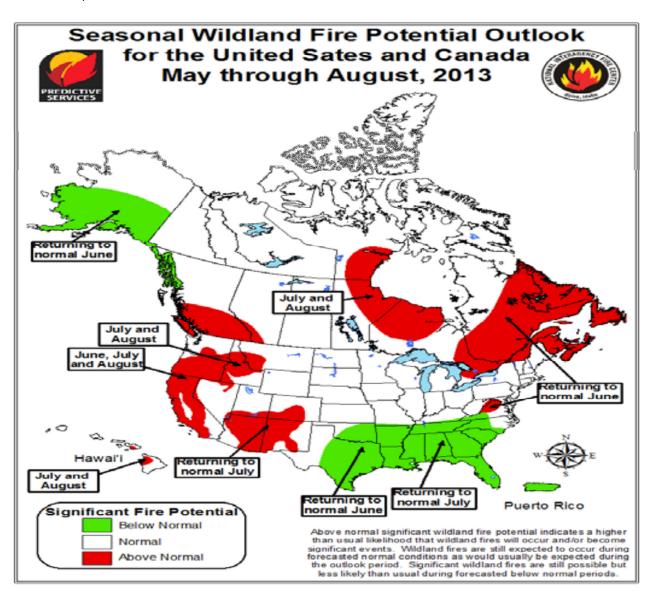


WEATHER & FUEL MOISTURE SUMMARY

The outlook for 2013 was for normal fire potential for all of Central Utah. December brought heavy snow followed by bitter cold for the month of January. Central Utah received normal snow pack during the winter months with the West Desert area receiving more spring moisture then the rest of the fire zone. Normal fire potential was expected to occur later in the season during July and August when the peak of heating and dryness has moved into the area. Monsoonal moisture moved over the entire fire zone for July with additional thunderstorms with lightning into August.

According to the U.S. Drought Monitor Utah is currently experiencing a moderate to severe drought conditions. These warm and dry conditions have led to record or near record Energy Release Component (ERC) values across the most of the dispatch zone during the month of June. However, July and August brought average or below average ERC values to the area.

*Information courtesy of Predictive Services



All RAWS recorded above precipitation for 2013. Black Cedar and Larb Hollow tripled their moistures from the previous year totals. Eight of the nine stations showed above normal precipitation except for Henry Mountains which was slightly below last year's precipitation of 4.89. Most moisture occurred in August and September of this year.

2013 Ann	2013 Annual Precipitation for RAWS									
RAWS Station	May	June	July	Aug	Sept	Total				
421501 - Sevier Res	0.40	0.02	1.20	0.43	0.64	2.69				
421502 - Mud Springs	0.31	0	0.25	1.31	1.38	3.25				
421805 - Black Cedar	0	0	1.40	4.16	3.64	9.20				
421806 - Tule Valley	0.81	0	0.72	0.45	1.29	3.27				
421807 - Horse Hollow	0.59	0	0.65	0.77	1.51	3.52				
421904 - Signal Peak	0.41	0	1.30	1.13	3.04	5.88				
421905 - Lost Creek	0.62	0	1.95	2.10	2.30	6.97				
422610 - Larb Hollow	0.74	0.04	2.72	2.17	6.16	11.83				
422611 - Henry Mtn.	1.19	0	2.50	2.08	3.32	9.09				
Total	5.07	0.06	12.69	14.60	23.28	55.70				

Mean max temperatures for all nine stations this year were averaging 10 to 15 degrees warmer for the monthly totals.

RAWS Station	Maximum Mean Temperature	Total Precipitation 01/01/2009 - 09/30/2013	Annual Precipitation 10/01/2012 - 09/30/2013
Sevier Reservoir	67.22° f	43.47"	8.77"
Mud Springs	64.11° f	39.53"	6.38"
Black Cedar	63.91° f	43.40"	6.37"
Tule Valley	67.65° f	34.16"	7.01"
Horse Hollow	65.25° f	49.26"	10.04"
Signal Peak	57.40° f	36.83"	8.44"
Lost Creek	60.33° f	43.74"	10.12"
Larb Hollow	58.86° f	66.10"	15.56"
Kane Gulch	55.14° f	56.86"	12.29"

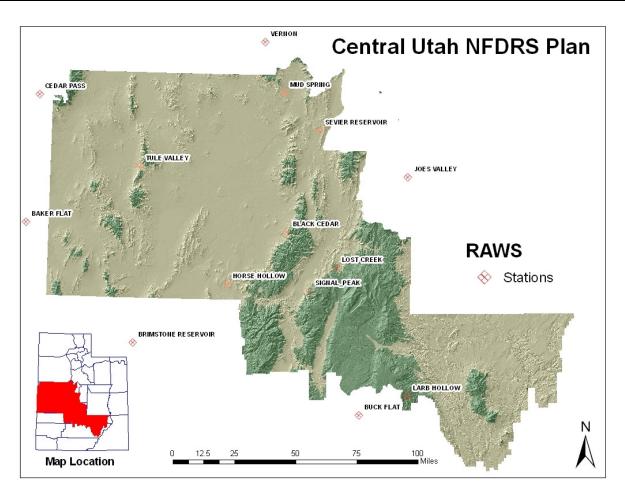
2013	2013 Mean Maximum Temperature									
RAWS Station May June July August Sept										
421501 - Sevier Reservoir	74.5	90.2	96.2	91.6	80.8					
421502 - Mud Springs	71.3	86.6	92.4	88.5	76.9					
421805 - Black Cedar	68.3	85.3	92.1	87.4	75.2					
421806 - Tule Valley	75.9	91.1	97.3	93.2	79.4					
421807 - Horse Hollow	71.5	87.0	92.2	88.2	76.7					
421904 - Signal Peak	61.3	78.2	83.2	80.3	68.3					
421905 - Lost Creek	65.5	8039	84.7	80.5	70.4					
422610 - Larb Hollow	63.2	79.3	80.8	75.9	67.8					
422611 - Henry Mountain	60.4	76.4	79.1	74.2	64.9					
Average Monthly Temp	68.0	83.9	88.7	84.4	73.3					

Live and dead fuel samples are collected bi-weekly for the Fishlake National Forest from three permanent RAWS locations: Black Cedar (D1), Signal Peak (D4), and Larb Hollow (D2). Sampling generally beings in late April and concludes in early October.

The BLM collects fuel samples bi-weekly from six permanent RAWS locations: Sevier Reservoir, Mud Springs, Tule Valley, Horse Hollow, Lost Creek and Henry Mountains.

The fuel moisture information is inputted into the National Fuel Moisture Database. The database is used by Predictive Services to compare years, compile trends and to assist in predicting what type of fire season we might see. Fuel moisture sampling is available at http://gacc.nifc.gov/ebgc/fuels.php

STATION NAME	STATION ID	LOCATION	ELEVATION	AGENCY
SEVIER RESERVOIR	421501	5 MI OF S OF SEVIER RESERVOIR	5329	BLM
MUD SPRINGS	421502	6 MI N OF LITTLE SAHARA	5902	BLM
BLACK CEDAR	421805	6 MI NE OF FILLMORE	6480	FS
TULE VALLEY	421806	7 MI NW OF ANTELOPE SPRING	5200	BLM
		RESERVOIR		
HORSE HOLLOW	421807	6 MI NW OF COVE FORT	6010	BLM
SIGNAL PEAK	421904	3 MI NE OF MONROE	8792	FS
LOST CREEK	421905	7 MI NE OF GLENWOOD	7490	BLM
LARB HOLLOW	421905	7 MI NW OF BROWN RESERVOIR	8490	FS
HENRY MOUNTAIN	422611	22 MI SW OF HANKSVILLE	8294	BLM



FIRE DANGER RATING SYSTEM

Central Utah has three Fire Danger Rating Areas; Central Utah West Desert, Central Utah Mountains and Henry Mountain Area.

The Central Utah West Desert encompasses 6,793,009 acres and includes all areas in Central Utah west of I-15 including the Canyon Mountains, the House Range, the Confusions, the Crickets, the Conger Range and Little Sahara Recreation area.

The Central Utah Mountain is east of I-15, spread across the mountains of Central Utah. It includes the Pahvant Range, the Tushars, Monroe Mountain, southern Wasatch Plateau, Thousand Lake and Boulder Plateaus, and Parker Mountain. It encompasses approximately 2,675,483 acres.

The Henry Mountain Area begins on the western edge of Capitol Reef National Park, south of Emery County line then east to the Colorado River, including the Hanksville Desert and the Henry Mountains. It encompasses 1,856,630 acres.

Each FDRA uses Remote Automated Weather Stations (RAWS) to obtain the weather information needed to produce fire danger outputs. Each area uses data compiled with the Energy Release Component (ERC) to determine the Adjective Fire Danger Rating. To determine the Dispatch Level the Burning Index (BI) is used for each area. Below is a list of RAWS used for each FDRA.

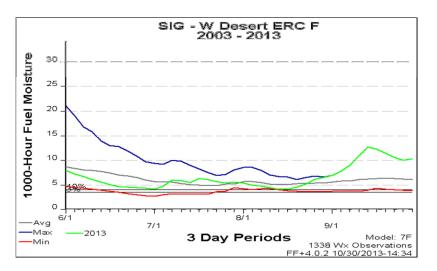
STATION NAME	STATION ID	LOCATION	ELEVATION	FUEL	STAFFING
				MODEL	INDEX
	WES	ST DESERT			
TULE VALLEY	421806	7 MI NW OF ANTELOPE	5200	F	ERC
		SPRING RESERVOIR		G	BI
	MC	DUNTAIN			
LOST CREEK	421905	7 MI NE OF GLENWOOD	7490		
BLACK CEDAR	421805	6 MI NE OF FILLMORE	6480	G	ERC
LOST CREEK	421905	7 MI NE OF GLENWOOD	7490		
BLACK CEDAR	421805	6 MI NE OF FILLMORE	6480	G	BI
SIGNAL PEAK	421904	5 MI NNW OF MONROE	8792		
	HAI	NKSVILLE			
KANE GULCH*	422712	KANE GULCH RANGER	6500	F	ERC
		STATION		F	BI

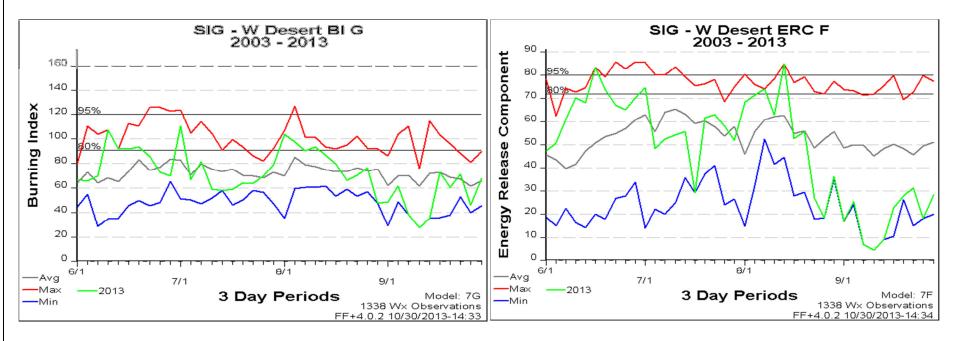
*Kane Gulch is owned by the Moab Field Office, but is used for the Hanksville Area data because the Henry Mountain RAWS does not have a long enough weather record.

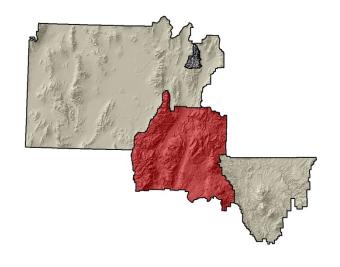
Central Utah NFDRS Plan

Below are outputs produced from each of the FDRA within our area from May 1st through October 31ST. These charts include the historical data, the current year highlighted, a previous large fire year, multiple fire days, large fire days and the critical percentile that has been identified for each area.

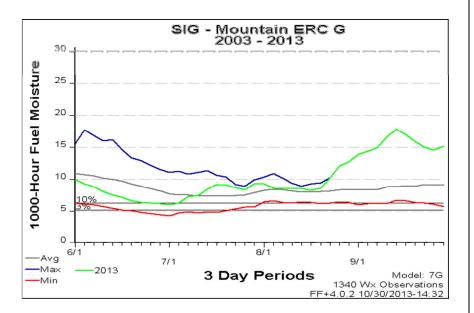


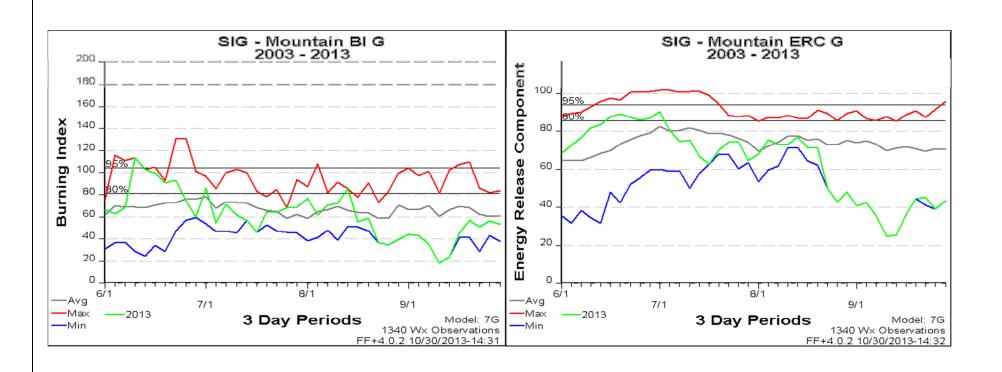


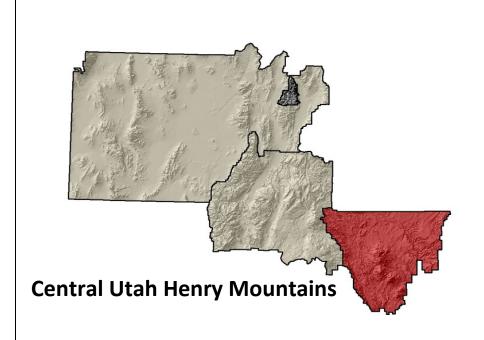


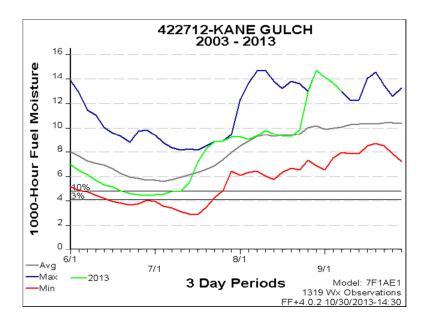


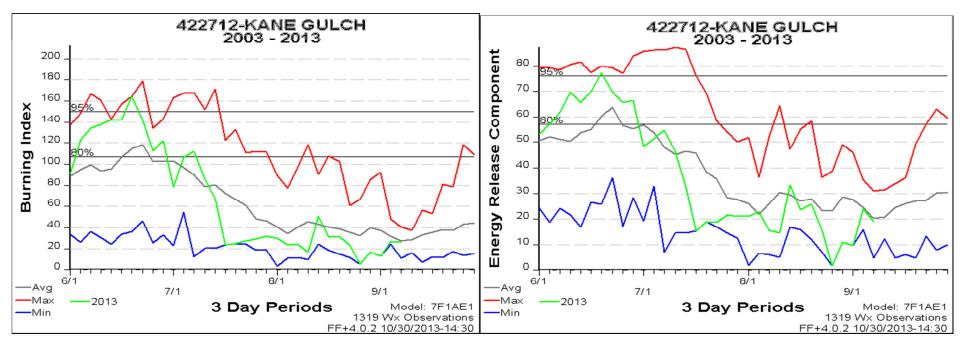












CENTRAL UTAH PREPAREDNESS LEVEL 2013

The table below indicates the number of days at each fire danger level for the FDRAs.

Number of days May 1st thru September 30th

	STAFFING LEVEL				PREPAREDNESS LEVEL			FIRE [DANGE	R RATING				
	Low	Moderate	High	Extreme	1	2	3	4	5	Low	Moderate	High	Very High	Extreme
West Desert	28	45	44	36	62	25	40	9	5	28	30	19	50	26
Central Mountains	35	32	50	36	69	25	34	13	0	22	79	28	21	1
Henry Mountains	89	29	12	23	- 1	-	-			92	4	15	22	20
Total Days	152	106	106	95	131	50	74	22	5	142	113	62	93	47

LOCAL FIRE DEPARTMENTS

In 2013, the 46 fire departments and/or county resources of Central Utah were dispatched 287 times (through 10/11/2013).

Volunteer Fire Departments	Assist to Private	Assist to State	Assist to USFS	Assist to BLM	MLF1 Assist	Total Assist
Aurora	0	0	0	0	0	0
Bicknell	0	0	2	0	0	2
Callao	0	0	0	0	0	0
Delta	9	0	0	4	1	14
Elsinore	0	0	0	0	0	0
Ephraim	9	7	0	1	0	17
Eskdale	0	0	0	0	0	0
Eureka	8	3	0	24	1	36
Fairview	3	1	0	0	0	4
Fillmore	2	0	1	1	0	4
Fountain Green	7	1	0	0	0	8
Garrison	0	0	0	0	0	0
Granite Ranch	0	0	0	0	0	0
Gunnison	1	1	0	9	0	11
Hanksville	0	0	0	0	0	0
Hinkley	0	0	0	2	0	2
Holden	3	3	0	0	0	6
Indianola	3	1	0	1	0	5
Junction	1	0	0	0	2	3
Kanosh	4	4	0	0	0	8
Koosharem	0	0	2	3	0	5
Leamington	2	0	0	2	0	4
Levan	8	7	0	4	0	19
Loa	0	0	2	0	0	2
Lyman	0	0	0	0	0	0
Lynndyl	1	0	2	1	0	4
Manti	2	0	0	2	0	4
Marysvale	3	0	0	0	0	3
Meadow	10	2	2	6	0	20
Millard County	0	3	0	0	0	3
Mona	2	0	0	6	2	10
Monroe	3	0	0	3	1	7
Moroni	5	2	0	0	0	7
Mt. Pleasant	7	2	0	0	0	9
Nephi	12	3	0	16	0	21
Oak City	0	6	0	2	0	8
Partoun	0	1	0	0	0	1
Richfield	0	2	0	16	0	18
Rocky Ridge	1	2	0	2	0	5
Salina	2	0	2	1	0	7
Scipio	0	2	0	0	0	2
Sigurd	0	0	0	0	0	0
Spring City	1	0	0	0	0	1
Sterling	1	0	0	2	0	3
Teasdale	0	0	0	0	0	0
Torrey	0	0	0	0	0	0
Wales	2	2	0	0	0	4
TOTALS	112	55	13	108	7	287

Thomas Peterson - Sanpete County - 2013 Dispatch Year End Report

Community Assistance Narrative

Took GPS locations of 2,134 homes, 846 structures, 35 bridges and 241 water features throughout 762 square miles of Sanpete's WUI

Created database of WUI information with accurate JPG photos of each feature
Wrote one CWPP and provided all technical information (maps, projects) for 13 others
Created detailed maps of Hideaway Valley, Indianola, Blackhawk and Panorama Woods
for the Indianola Valley Fire Department

Rural Fire Assistance Narrative

Fuels Project Narrative

Completed 2 miles 300 feet of wide shaded fuel breaks
Assisted 35 home owners in community chipping programs
Completed numerous defensible space projects
Currently working with the SO to develop community evacuation plans

	Acres Burned	Acres Mechanical	
Fuels WUI		50 acres	
Non WUI	150 acres		

	Number & Acres	Rec to Proceed	Sent Forward Rec Cost
Fire			
Investigation	1 for 35	1	0

		Number of
	Event	Times
Prevention	Days on fire with PIO	3
	Number of Parades	6
	Workshops	15
	Smokey Programs	6
	Brochures, etc.	
	Radio Spots	6
	Signs Inst. Main	
	Events Attended	15
	Fuels Projects & RX Asst.	2

List Events Attended

Parades, Rodeos, Derby's, Pre-schools, 2nd grade, Outdoor Expo, Community HOA Meetings, Table Talk with KMTI, Sanpete County Emergency Preparedness Fair and many others

Howard Allred - Millard County - 2013 Dispatch Year End Report

Community Assistance Narrative

Rural Fire Assistance Narrative

Assisted 4 Fire Departments in getting FEPP Equipment Attended Fire District Meetings each month Put on 10 fire refreshers for VFD's Prepared report for Commissioners on the fire season Prepared budget and discussed with Commissioners

Fuels Project Narrative

Burned 20 acres for DWR
Burned 180 acres for Jed Memmott

	Acres Burned	Acres Mechanical
Fuels WUI		
Non WUI	200 acres	

			Sent Forward Rec
	Number & Acres	Rec to Proceed	Cost
Fire Investigation	3 for 25	0	0

	Event	Number of Times
Prevention	Days on fire with PIO	1
	Number of Parades	
	Workshops	
	Smokey Programs	2
	Brochures, etc.	
	Radio Spots	
	Signs Inst. Main	
	Events Attended	2
	Fuels Projects & RX Asst	t. 2

Brett Ostler - Juab County - 2013 Dispatch Year End Report

Community Assistance Narrative

Rural Fire Assistance Narrative

Fuels Project Narrative

1 project at the DWR Bird Refuge

	Acres Burned	Acres Mechanical
Fuels WUI	100 acres	
Non		
WUI		

	Number & Acres	Rec to Proceed	Sent Forward Rec Cost
Fire Investigation	2 (BLM)	0	0

	Event	Nu	mber of Times
Prevention	Days on fire with PIC)	8
	Number of		
	Parades		1
	Workshops		
	Smokey Programs		1
	Brochures, etc.		
	Radio Spots		
	Signs Inst. Main		
	Events Attended		
	Fuels Projects & RX Asst.		

Matt Christensen - Sevier, Wayne & Piute Counties - 2013 Dispatch Year End Report

Community Assistance Narrative

Rural Fire Assistance Narrative

Wrote letters to help Junction & Koosharem FD's receive funding for new fire stations. Junction was successful, Koosharem still pending

Programmed radios in Sevier and Piute County Fire Departments

Attended all Chief's Meetings and helped Marysvale and Junction with Grants

Provided extensive training to fire departments to contact Fire Dispatch during season

Fire Department

Put on 8 fire refreshers

Fuels Project Narrative

Completed Doug Nowell Project of 35 acres mechanical Completed Elk County Cabins Escape Route, approx. 15 acres mechanical Chet Johnson, 5 acres; Durfee property, 10 acres; Gary Cooper, 10 acres

		Acres
	Acres Burned	Mechanical
Fuels WUI	2 acres - Nowell	75 acres
	15 acres - River	
Non WUI	Piles	

			Sent Forward Rec
	Number & Acres	Rec to Proceed	Cost
Fire Investigation	2 for 3.5 acres	1 (V Hill)	1 (V Hill)

	Event	Num	ber of Times
Prevention	Days on fire with P	סוי	5
	Number of Parades	Number of	
	Workshops		
	Smokey Programs	Smokey Programs Brochures, etc.	
	Brochures, etc.		
	Radio Spots		6
	Signs Inst. Main		
	Events Attended		2
	Fuels Projects & RX	X Asst.	2

Terry Heath - Central Area Fuels & WUI - 2013 Dispatch Year End Report

Community Assistance Narrative

Rural Fire Assistance Narrative

Fuels Project Narrative

Completed 13 chipping days in 9 different subdivisions, approx. 40 tons of chips

Completed 2 chipping days on Monroe Mountain

Completed 7.5 miles of fuel breaks, 300 feet wide

Completed 22 "D" space projects in Sanpete County

Completed 4 "D" space projects and 1.5 miles of fuel break in Wayne County

		Acres
	Acres Burned	Mechanical
Fuels WUI	195 acres (Millard)	493 acres (treated in the
Non WUI		6 county area)

	Number & Acres	Rec to Proceed	Sent Forward Rec Cost
Fire Investigation	0	0	0

	Event	Numb	er of Times
Prevention	Days on fire with PIO		
	Number of		
	Parades		
	Workshops		
	Smokey		
	Programs		
			300 (Fire
	Brochures, etc.		Wise)
	Radio Spots		
	Signs Inst. Main		
	Events Attended		11 HOA
	Fuels Projects & R	⟨ Asst.	

FUELS ACCOMPLISHMENTS

Prescribed fire activity occurred approximately 27 days during the spring, fall and into the winter. The agencies accomplished 27 prescribed fire projects for a total of 5,422 acres during 2013.

Agency	Fires	Acres
Fishlake N.F.	12	4664.50
Richfield BLM (Color Country)	4	368
Fillmore BLM (West Desert)	0	0
State and Private	9	388.50
Fish Springs Refuge	1	.25
Capitol Reef NP	1	1
Total	27	5,422.25

In addition to the prescribed fire accomplishment, the fuels programs accomplished many other fuel treatments projects.

The Richfield BLM completed 4 mechanical treatments totaling 1838 acres, and the Fillmore BLM completed 3 mechanical treatment totaling 1491 acres.

Field Office	Acres					
Richfield	697	Bullhog				
	786	Seeding				
	291	Chaining				
	64	Prescribed Fire				
	TOTAL ACRES T	REATED – 1,838				
Fillmore	503	Seeding				
	655	Lop & Scatter				
	333	Bullhog				
	TOTAL ACRES TREATED – 1,491					



PLANNED
ACTIVE
COMPLETE

PRESCRIBED BURN FIRE STATS 2013

Agency	Project Name	Planned Acres	Start Date	Acres Burned	Total Acres Burned
Fillmore Field					
Office					
West Desert BLM					
Total FFO Fires	0		ı	total acres	0
Richfield Field Office	Quitchupah Road Piles	120	1/10	120	120
Color Country BLM	Antimony Piles	180	1/25	30	248
	Antimony Broadcast RX	173			0
	Cove Mountain Timber Piles				0
				-	
Total RFO Fires	4			total acres	368
Total BLM Fires	4			total acres	368
Beaver Ranger					
District	Dock Springs	930	1/10	25	930
	Merchant Valley	500	4/23	5	5
	Little North Creek	2000	4/26	171	1990
	Beaver RD Pile Burn		11/7	2	2
	Labaron Pile Burn		11/7	2	2
Total Fires	5			total acres	2929
	Water Canyon	1319	3/20	225	1175
Fillmore Ranger District	water Carryon	1019	3/20	223	1175
	<u></u>				
Total Fires	1			total acres	1175
Fremont River	Cedar Creek Piles	500	2/6	450	450
Ranger District	Fremont River Piles	1	3/20	1	1
	Pollywog Sage RX	171	5/2	100	100
	Lower Bound	0.25	9/19	0.25	0.25
	Paradise RX	0.25	9/19	0.25	0.25

Total Fires	5			total acres	551.5
Richfield Ranger	Box Creek Piles RX	329.6			9
District					
Total Fires	1			total acres	9
Total USFS Fires	12			total acres	4664.5
Fish and Wildlife					
Service	Clear Lake Bird Refuge	0.25	3/18	0.25	0.25
Total FWS Fires	1			total acres	0.25
Capitol Reef			_		
National Park	Trash Pile RX	1	1/11	1	1
Total CRP Fires	1			total acres	1
South Central		-	_		
State Forestry, Fire and	Steve Rosenswag RX (SEV PRI)	3	3/4	1.5	3
State Lands of	Alan Hobbs RX (MIL PRI)	0.5	3/20	0.5	0.5
Utah	Nephi Bird Farm RX (JUB)	160	3/20	140	142
	Memmott RX	236	9/24	180	180
	DWR Project (MIL PRI)	20		20	20
	Juab County Landfill RX (JUB)	1	4/10	1	1
	Donkey Flat Road Piles (SAN PRI)	25		25	25
	Glenwood River Bottom Piles (SEV PRI)		11/8	15	17
			1		
Total State Fires	9			total acres	388.5
Dispatch Totals	27			total acres	5422.25



LOGISTICAL ACTIVITY

Richfield Interagency Fire Center is responsible to mobilize 511 overhead personnel, 1 Type 2IA Crew, 10 camp crews, 108 Engines/Water Tenders, and 25 miscellaneous I-BPA equipment. In addition, approximately 185 camp crew members were signed up as ADs this year (these ADs are not issued Qualification Cards therefore they are not counted in the AD section of the below chart).

Agency	UT-FIF	UT-RID	UT-SCS	UT-CRP	UT-FSR	UT-SPA
# Of Personnel	139	92	275	4	1	0
AD	10	6	0	0	0	0
Type 2IA Crew	1	0	0	0	0	0
Camp Crews	0	10	0	0	0	0
Engines/Water Tenders	6	13	89	0	0	0
I-BPA Equipment	9	16	0	0	0	0

In 2013, the BLM staffed a total of 10 engines and 1 tactical water tender consistently throughout the season. One water tender was not staffed due to lack of funding, and one engine went down mid-season with a blown engine. The Fishlake Forest staffed six engines and one wildfire module.

Richfield Interagency Fire Center sent a total of 20 engines on off unit assignments during the year. The table below shows the off-unit engine activity during 2013.

Agency	BLM	USFS	FFSL
Total Engines/Water Tenders	11	6	89
Date of First Off-Unit Assignment	6/14/2013	6/14/2013	8/10/2013
Date of Last Off-Unit Assignment	8/01/2013	8/25/2013	8/11/2013
Total Off Unit Assignments	8	8	4

Prior to 2012 the BLM was the employing agency for all ADs. During 2013 ADs were hired by the Fishlake National Forest, Fillmore BLM or Richfield BLM. Richfield Interagency Fire Center filled 45 requests with ADs.

Agency	Employment (reemployments counted)				
Fishlake NF	30				
BLM Richfield Field Office	12				
Fillmore Field Office	3				
Total	45				

The Central Utah Camp Crew program was once again a success in 2013. Applications were received from all seven counties that are served in our fire zone. An overwhelming 253 applications were received for Crew Boss, Assistant Crew Boss and Camp Member positions. These folks are required to attend training before they are sent out to fires. The numbers dwindled to 185 participants due to the required training, and all were given the opportunity to go out on one assignment and some twice. The ten Central Utah Camp Crews, which

are sponsored by the Richfield BLM, took a total of 17 assignments during 2013 fire season, all assignments were off-unit and returned to the valley with close to \$500,000 dollars to spend in our communities. We are excited for the 2014 fire season to start for these folks and our program.

The Fishlake Regulars Type 2 IA crew is an essential part of our fire organization. The Fishlake Regulars are an interagency crew which is a combined effort of the Fishlake National Forest, Richfield and Fillmore BLM, and the Central Area Forestry Fire and State Lands. The crew was able to take 6 off-unit assignments in 2013. RIFC mobilized both of the two local Type 3 teams four times this year. RIFC also assigned 906 (local and non-local) overhead to local incidents.

Fire activity for Richfield Interagency Fire Center in 2013 was such that only a mini expanded dispatch was utilized during the season that supported two Local Type 3 Incident Management Teams.

The Richfield Interagency Fire Center plays a vital role in supporting the local, regional, and national fire programs. During 2013, RIFC was busy supporting local and non-local incidents especially to our local neighbor states. Below shows a chart of how our resources supported out of area fires.

2013 OFF UNIT STATS

	# Off Unit Assignments	# Days on Off Unit Assignments
OVERHEAD *	245	2,463
IA CREWS	6	53
FIRE MODULE	3	59
CAMP CREWS	17	191
EQUIPMENT	79	331

^{*}Included support personnel, i.e. drivers.

Below are the total numbers of resource requests processed by the Richfield Interagency Fire Center. In 2013, Richfield Fire Center filled 2,284 orders (not counting supplies), of which 369 were off unit requests.

			RICHFIELD FIRE CENTER RESOURCE ORDERS – RESOURCE ORDER & STATUS SYSTEM REPORT									
	ENT	TER	Delete	PLACE	RETRIEVE	FILL	Unfill	REASSIGN	RELEASE	CANCEL	CANCEL	UTF
											UTF	
AIRCRAFT	101	1	1	79	7	44	0	36	47	13	5	3
CREW	46		0	44	6	43	4	17	7	12	14	2
EQUIPMEN	IT 213	3	3	52	8	220	18	35	187	20	3	11
OVERHEAD	952	2	1	622	38	1,106	94	483	581	33	3	80
SUPPLY	1,2	47	171	144	1	871	0	0	47	65	0	0
TOTAL	2,5	59	176	941	60	2,284	116	571	869	143	25	96

PREVENTION/MITIGATION



Due to the normal winter snow pack and summer moisture the Richfield and Fillmore BLM, Fishlake National Forest and Forestry, Fire and State Lands Central Area did not go into any fire restrictions for 2013.

Prevention personnel and Smokey Bear made numerous public appearances and contacts to educate the public about wildfire prevention and campfire safety throughout 2013. Time was also spent maintaining, replacing and repairing information signs. In addition, prevention personnel conducted community education meetings,

assisted volunteer fire departments with various trainings, completed numerous patrols throughout the summer and assisted with public information for prescribed burns, fuels projects and wildfires.

The east zone fire prevention program continued to spread the fire prevention message through various events, programs, signs, and opportunities big and small. This year, a small portion of BLM-Color Country District lands within the Central Utah fire zone, went into fire restrictions. The area under the restriction fell within Garfield County on June 20, and was rescinded on August 1. Efforts to inform the public on the area restrictions were in full force. With the help of fire, fuels, recreation, and law enforcement staffs, signs were posted throughout the area, radio ads were played, news releases printed, and patrols. These efforts were made available far and wide. For the second year in a row, central



Utah kicked off the fire season, by going to greater heights to prevent wildfires. With support of the Smokey Bear hot-air balloon, we reminded folks about human-caused wildfire prevention, and lifted the awareness in people off all ages.

Below is a table of prevention activities and accomplishments for our fire zone.

	Parades	Workshops	School/	Brochures	Radio	Signs	Fuels &	Assist
			Neighborhoods/	Distributed	Spots	Installed &	RX	with PIO
			Smokey Bear	for the Year	/ PSA	maintained	Assists	for Fires
			Programs					& RX
East Zone	4	3	62	13,500	6	155	14	10
(BLM & FS)								
West Zone	7 (7,500		25 (5,500	4,700	30	111	12	6
(FS)	Contacts)		Contacts)					
West Zone								
(BLM)								
Central Utah	4	40	18	300	12		6	17
(State)								

2013 East Zone Prevention Activities and Accomplishments

of days spent on fires as PIO: 10

- 2 Deep Creek Piles Rx
- 1 Cedar Creek Piles Rx
- 3 Flat Canyon
- 2 Hell's Kitchen
- 1 Twin Peaks Rx
- 1 Antimony Rx

of days spent on fires in suppression: 23

- 1 V Hill... (FFT1)
- 1 Mill Creek... (FFT1)
- 1 Antelope (DRIV)
- 14 Boise ID. Fires (Sunk, Summit, Boise Support, 52 Complex, Fir Grove) ... (FFT1)
- 1 Long Valley Ridge... (FFT1, ATVO)
- 1 East Saul... (FFT1)
- 2 RIFC Support (IADP)
- 2 Furner (IADP)

Parades: 4

- Richfield
- Salina
- Torrey
- Loa

Workshops: 3

- 1 EC Source
- 2 Girls Camp Fire Safety Certification

Signs: 155

- 132 Fire Prevention Signs installed and maintained
- 3 Internal Fire Bulletin Boards
- 15 Fire Restriction signs on Henry Mountains, and Antimony
- 5 Fireworks Booths

Fuels projects & RX assists: 14

- 2 Deep Creek Piles
- 10 2013 Info sheets to utahfireinfo.gov
- 1 NYFSRP scoping letter
- 1 Ray Mesa (Canyon Country District-Moab Field Office)

Schools: 52

- Central Region 9th grade career day:
 Delta High School, Manti High School, Millard High School, Gunnison High School, Juab Junior High School, Tintic High School, North Sevier High School, North Sanpete High School, Piute High School, Richfield High School, South Sevier High School, Wayne High School
- Monroe Elementary School
- 2 North Sevier High School
- 2 Little Leaners Preschool
- Marion Tidwell's Preschool
- 2 Richfield Head Start
- Monroe Head Start
- 2 Monroe District Preschool
- 2 Kalico Kid's Preschool
- Natural Resource Festival:

Pahvant Elementary Schools, Red Hills Middle School, Richfield High School, Gunnison Middle School, Oscarson Elementary, Monroe Middle School,

- 2 A Step Above Preschool
- Sunflower Preschool
- Gooseberry 3rd Grade Program:

 Salina Elementary School, Monroe
 Elementary School, Oscarson Elementary
 School, Circleville Elementary School,
 Pahvant Elementary School
- Salina 2nd Grade
- Ashman 1st Grade

Neighborhood: 10

- Stake Girls Camp certification
- Girls Scout Program at RIFC
- Richfield Wal-Mart Safety Day
- Sevier County Fair
- 3 Eyes to the Sky Balloon Festival
- Girls Camp at Twin Creeks
- 2 Fishlake Evening Programs

Radio spots: 6

2013 East Zone Prevention Activities and Accomplishments cont....

Brochures / prevention materials: 13,500

- 23 NSHS Law Enforcement class
- 22 Little Leaners Preschool
- 15 Marion Tidwell's Preschool
- 40 Richfield Head Start
- 20 Monroe Head Start
- 30 Monroe District Preschool
- 23 Kalico Kid's Preschool
- 1200 Central Region 9th grade career day
- 3500 Natural Resource Festival
- 21 A Step Above Preschool
- 12 Sunflower Preschool
- 100 June Fishlake Evening Program
- 100 August Fishlake Evening Program
- 8 Girl Scout Program
- 30 Girls Camp at Twin Creeks
- 50 Girls Camp Fire Safety Certification
- 500 Safety Day at Sevier County Fair
- 500 Gooseberry 3rd Grade Program
- 80 Salina 2nd Grade Program at Maple Grove
- 200 Ashman 1st Grade Program at Maple Grove
- 20 NSHS Law Enforcement class
- 500 Firework Safety Reminders
- 500 Fire Prevention Patrols
- 6000 Parade Handouts

East Zone Events Attended:

- 10 Smokey Bear Preschool Programs
- 4 Smokey Bear Head Start Programs
- Natural Resource Festival
- 2 Girls Camp Certifications
- 2 North Sevier Fire Prevention
- Wal-Mart Safety Day
- Eye's to the Sky Hot Air Balloon Festival
- Richfield Parade
- Torrey Parade
- Loa Parade
- Gooseberry 3rd Grade Program
- Salina 2nd Grade Field Trip to Maple Grove
- Ashman 1st Grade Field Trip to Maple Grove
- Monroe 3rd Grade Program
- 2 Fishlake Evening Programs
- Girl Scout Programs
- EC Source Safety Meeting
- Central Region 9th Grade Career Day
- Sevier County Fair Safety Day

Other:

- Coordinated fire severity patrols and fire severity dollars for the Richfield and Fremont River Ranger Districts.
- The process of installing new fire prevention signs located on the Henry Mountains was initiated. During the winter, several large rustic signs will be installed throughout the Henry Mountain area. These signs will help deliver various fire prevention messages, for years to come.





2013 West Zone Prevention Activities and Accomplishments



- Instructed Wildland Fire Prevention and Education programs to schools, Hunter's Education & Scout Programs.
- Attended and supported fire councils and homeowners associations with CWPP's
- Provided wildland fire and prescribed fire information to employees and public through personnel contacts, information boards, radio and newspapers.
- Beaver 3rd Grade Environmental Education Field Day – Ponderosa Picnic Area
- Fillmore 5th Grade Environmental Education Field
 Day Adelaide Campground
- Gunnison Head Start Program Maple Grove Campground
- Fillmore ATV Jamboree
- Severity prevention and law enforcement patrols -July

- Interagency Fillmore Art Festival Fillmore
- Prevention and Law Enforcement patrols 60 with 450 contacts
- Participated and provided prevention support to Utah State Fair – Salt Lake City
- Beaver 1st Grade "Big Tree" Day with Smokey
 Bear Beaver Mountain
- Chair of CUIF Interagency WUI/Fuels Committee
- Eye's to the Sky Hot Air Balloon Festival Smokey Bear Balloon - Salina
- Assisted Volunteer Fire Departments with trainings, prevention activities
- Interagency Communications Committee
- Utah Living with Fire committee
- USFS Safety Committee Member Fillmore RD/Fire

TRAINING

For the 2013/2014 Training Season

Nomination received and processed	FS	FS ADs	BLM	BLM ADs	Total
Nominations for Utah Fire and Rescue Academy (UFRA)	29	0	26	0	55
Nominations for Great Basin	25	1	16	0	42
Nominations for NAFRI	5	0	0	0	5
Nominations for Other Geographic Areas	4	0	1	0	5
Nominations for FS Engine Academy or BLM ENOP	1	0	2	0	3
Total Nominations Received	64	1	45	0	110
Nominations not approved due to missing prerequisites	1	0	9	0	10
Nominations not approved due to budgetary or other	15	0	4	0	19
Total Nominations Approved Locally	48	1	32	0	81
Student Not Accepted into course (Selections pending)	2 (13)	0	4 (1)	0	0
Students Accepted into course	46	1	28	0	75
Non-attendance due to student cancellation*	2	0	0	0	0
Non-attendance due to course cancellation*	0	0	0	0	0
Non-attendance due to student no show*	0	0	0	0	0
Total Training courses completed	44	1	28	0	73

^{*} numbers subject to change

Locally Sponsored NWCG Training

Course	Course		Local	Non- Local	Total
Number	Name	Instructor	Students	Students	Students
D110	Expanded Dispatch Recorder	Marleen Chappell	6	0	6
1200	Basic ICS	Clay Matheson	18	4	22
1300	Intermediate ICS	Gayle Sorenson	13	3	16
S133	Look up, look down, look around	Greg Coleman	1	0	1
S133	Look up, look down, look around	Kyle Bigler	1	0	1
S200	Initial Attack Incident Commander	Ken Wright	10	0	10
S211	Portable Pumps & Water Use	Bart Madsen	9	0	9
S212	Wildland Fire Chain Saws	Kelly Cornwall	8	0	8
S232	Dozer Boss	Robert Lopez	14	0	14

In addition, RT212, Chain Saw refresher training, RT212, was put on in Beaver and Fremont River where 36 students attended.

Several sessions of RT130, Annual Fire Refresher were conducted providing this training to 230 people, including 41 contractors.





QUALIFICATIONS

A total of 243 personnel were issued qualifications cards by Central Utah in 2013; 151 to FS employees including 12 ADs, and 92 to BLM employees, including 7 ADs.

Employee Location & Type	Fire	Fuels	Other	Total
Fillmore Ranger District	11	1	8	20
Fremont River Ranger District	8	4	11	23
Beaver Ranger District	14	2	13	29
Richfield Ranger District	9	3	13	25
Supervisor's Office	7	1	34	42
ADs	12			12
Forest Total	61	11	79	151

Employee Location & Type	Fire	Fuels	Other	Total
Richfield	13	4	12	29
Hanksville	0	0	2	2
ADs	7			7
Richfield Field Office Total	20	4	14	38
Fillmore	14	4	23	41
Little Sahara	12	0	0	12
ADs	1			1
Fillmore Field Office Total	27	4	23	54
BLM Total	47	8	37	92

Position Task Books

During 2013, 75 new position task books were issued, 46 were certified, and 38 expired.

	FS	FS	FS	BLM	BLM	BLM
Function	Issued/Active	Certified	Expired	Issued/Active	Certified	Expired
Air Ops	2	1	2	1	0	3
Command & Staff	11	13	2	2	4	2
Dispatch	1	1	1	5	3	0
Finance	2	2	2	6	0	0
Logistics	9	6	7	3	0	3
Operations	13	6	7	11	7	3
Planning	5	3	4	2	0	1
Prevention & Investigation	1	0	0	1	0	1
Total	44	32	25	31	14	13

BLM Trespass Cases

There were 10 human caused fires that involved BLM land in 2013; 4 occurred in the Richfield Field Office burning a total of 1.2 acres of BLM land, and 6 were in the Fillmore Field Office, also for 1.2 acres.

Richfield Field Office

From the four investigation reports received for the Richfield Field Office, 2 have been processed with a recommendation not to proceed, and 2 have been forwarded to the state office for review and negligence determination. If the decision is made to proceed the BLM would recover approximately \$400 in suppression costs.